



# Cardcage Slot Assignments and Backplane Configuration Procedures for the 16 Channel Asynchronous Line Multiplexer-2









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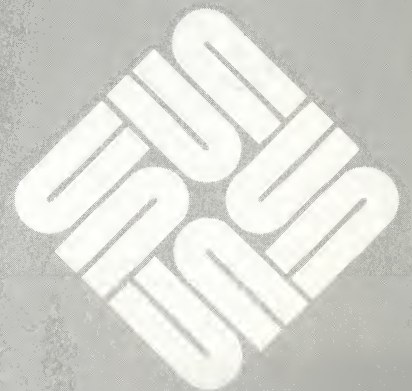


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## General Description and Cautions

### 1.1. General Description

This manual describes the cardcage slot assignments and backplane configuration procedures for one specific board assembly (the 16 Channel Asynchronous Line Multiplexer-2, or ALM-2) when it is used in a specific subset of Sun Logic Enclosures. It is intended to be used in conjunction with the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures* Sun Part Number 813-2004-XX. In the event of a conflict between this document and the 'normal issue' document, this document shall take precedence.

*NOTE : Because of the release of the Sun ALM-2, references to Sun's previously released product, known only as the ALM, have now been changed. The ALM will now be referred to as the ALM-1.*

### 1.2. Caution - Using the ALM-2 with the Sun MCP or ALM-1

The ALM-2 shares VME vector interrupt assignments with the ALM-1 and the MCP. The ALM-2 also shares VME address space with the MCP. Because of these possible conflicts, and a possible physical space restriction in the Rack, the following rules must be applied when installing the ALM-2 into a system containing MCPs or ALM-1s.

#### Rack Physical Space Restriction Rule

If three ALM-1s (with their associated mux boxes) are already installed into the rear of the Rack, there will be no room to mount the ALM-2's Device Connector Assembly (DCA). If this is the case in your installation, there are instructions in the Installation Manual for mounting the ALM-2's DCA to the floor or wall. This is permitted.

#### VME Vector Interrupt Conflict

The ALM-2 and the MCP share the *exact same* vector interrupt assignments. The ALM-1 has vector interrupt assignments that are in *conflict* with the ALM-2 (and the MCP). The following Table shows the assignments and illustrates the possible conflict.



Table 1-1 ALM-2 MCP and ALM-1 Vector Interrupt Assignments

ALM-2 MCP and ALM-1 Vector Interrupt Assignments			
Installed Board	Device Entry Number	VME Vector Interrupt Assignment (Hexadecimal)	
		ALM-1	ALM-2 and MCP
1st Board	Ø	88	8b
2nd Board	1	89	8a
3rd Board	2	8a	89
4th Board	3	8b	88

As you can see from the Table, the vector interrupt assignments of the ALM-1 and ALM-2 are in the exact opposite order, and the vector interrupt assignments of the ALM-2 and the MCP are the same. This makes the following rules necessary.

#### Rule One

No more than four ALM-1, ALM-2 or MCP boards *altogether* may be installed in a single cardcage. This *does not* mean four of each kind, it means four boards *total*.

If you look at the preceding Table closely, you will see that if more than four boards were installed, two of the boards would have identical vector interrupt assignments. This will cause duplication errors of assigned vector interrupts.

#### Rule Two

When installing the Sun ALM-2 or MCP, the boards *must* be installed in proper address order. There are four VME board address positions available that can accommodate either the Sun ALM-2 or MCP board. Therefore, one address position can only accommodate one board type, and any MCP or ALM-2 must be installed in the proper board device sequence:

1st board (MCP or ALM-2)	Device Ø
2nd board (MCP or ALM-2)	Device 1
3rd board (MCP or ALM-2)	Device 2
4th board (MCP or ALM-2)	Device 3

**NOTE :** Refer to the specific ALM-2 or MCP Configuration Procedure for information on board device addressing.

For example, if you had two MCP boards already installed (1st and 2nd Sun MCP boards) and you then wanted to install two Sun ALM-2 boards, you would need to configure and install the two ALM-2 boards as the 3rd and 4th ALM-2 boards respectively. This address order is exclusive of the Sun ALM-1 board addressing. This rule also applies if MCP boards are to be added to a system already containing ALM-2 boards.

**NOTE :** For information on ALM-1 board addressing, refer to the ALM-1 Configuration Procedure (Sun P/N 813-2008-XX) for information on setting/verifying the ALM-1 board address.



**Rule Three**

When installing the Sun ALM-1, it must be installed in the proper sequential board address order: with the first board installed as the 1st Sun ALM-1 and so forth. For Deskside systems that support the ALM-1, only one ALM-1 board can co-reside with the MCP and/or ALM-2 boards. The address order for the ALM-1 is exclusive of the Sun ALM-2 or MCP addressing.

It is necessary to refer to the next subsection, *VME Address Conflict*, to understand the sharing of VME address space of the ALM-2 and MCP boards and determine their correct cardcage slot assignment. The ALM-1 does not share VME address space with the ALM-2 or MCP; therefore, its slot assignment is independent of the ALM-2 or MCP.

**VME Address Conflict**

The ALM-2 and MCP boards occupy the identical VME address space as well as interrupt vectors, and both are known to the CPU as mcp $x$  (where  $x$  is a number 0 through 3). So, for example, if two MCP boards are already present in the cardcage and you wish to add an ALM-2, the ALM-2 would be designated as mcp2 in the VME addressing (with the two MCP boards being designated mcp0 and mcp1 respectively).

**Rule Four**

The ALM-2 and MCP must not be installed using identical VME addresses (board device numbers).

The ALM-2 board number (VME Address) is hardware selected on the board. If necessary, refer to the ALM-2 Configuration Procedure (Sun P/N 813-2042-XX) for information on setting/verifying the ALM-2 board address (board address selection is identical for the MCP).

**Deskside System Restrictions****Rule Five**

For Deskside systems that support the ALM-1, only one ALM-1 board may co-reside in the Deskside cardcage with ALM-2 and MCP boards.

**1.3. Cautions during Handling and Installation****Springfinger Caution**

**Springfinger Caution** — Springfingers are metal strips that are installed between the edge of the PC board and the outer panel to reduce RFI emissions. Serrated metal “fingers” protrude from either side of the strip.

If a board **WITH** springfingers is installed next to a board **WITHOUT** springfingers, the insulator shield on the outside of the fingers **MUST** be present to prevent possible shorting of component leads to the springfingers.

Installation of a board **WITHOUT** springfingers may affect RFI emissions and may therefore affect FCC compliance. Sun will no longer be responsible for FCC compliance if non-springfingered boards are added to a system originally shipped **WITH** springfingers and FCC approval.

If a logic enclosure contains boards **WITH** and **WITHOUT** springfingers, use the following guidelines:

- Before removing a board **WITHOUT** springfingers, remove the board below it (or to the left of it for pedestal mode) if that board is equipped **WITH** springfingers and an outer insulator shield.
- Replace any filler panel equipped **WITH** springfingers by pulling out the air restrictor panel far enough to allow the springfingers to lay against the filler panel. Push both units into place simultaneously, and secure with the appropriate fasteners. This procedure makes replacement of the filler panels easier, and reduces the possibility of damage to the springfingers.



- Always install a board **WITHOUT** springfingers first, and then replace the board **WITH** springfingers and insulator shield in the slot below it (or to the left).

If a board **WITH** springfingers is installed next to a board or filler panel also equipped **WITH** springfingers, the outside insulator shields should be removed.

Ensure that the insulator strip between the inner side of the springfingers and the PC board is intact at all times.

When removing and replacing boards with springfingers, check the condition of the insulator strip/shield(s) and replace if damaged.

Call 800 USA-4SUN with any questions, or for information on how to obtain additional insulator strips or shields.

### **Electrostatic Discharge Caution**

**Electrostatic Discharge Caution** — Some of the devices on Sun boards are very sensitive to electrostatic discharge (they can be permanently damaged). An electrostatic charge can build up in the human body and then discharge when you touch the board.

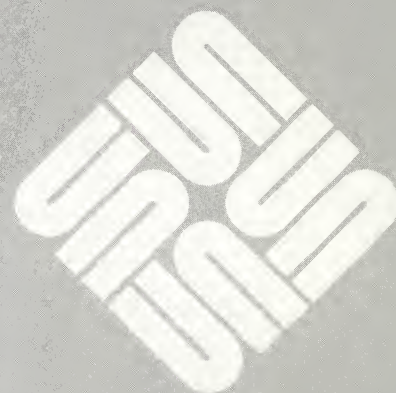
***Before handling any board***, make sure that you have placed your hand on a conductive surface that is grounded to a common earth ground, (such as the metal screws on an AC receptacle cover) to discharge the static electricity present in your body.



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## Slot Assignment Tables

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## Slot Assignment Tables

The following Tables describe the slots available for the ALM-2 when it is installed in various Sun Logic Enclosures. The slots are ranked in the order of preference: 'A' being the *most* preferred slot, 'B' the next most preferred, etc. The Tables also describe any modifications that may be necessary to the Logic Enclosure cardcage backplane.

Table 2-1 *Cardcage Slot Assignments and Backplane Configuration for the Sun-3/110X*

BACKPLANE JUMPERS		BOARD NUMBER	Sun-3/110 BACKPLANE SLOT POSITION †		
BG3	IACK		1	2	3
P X 0 3	P X 0 4				
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A

† **IMPORTANT:** In the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures*, the vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the normal issue document, the ALM-2's vertical position in the Table should be *after* the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).



Table 2-2 Cardcage Slot Assignments and Backplane Configuration for the Sun-3/140

BACKPLANE JUMPERS		BOARD NUMBER	Sun-3/140 BACKPLANE SLOT POSITION †		
BG3	IACK		1	2	3
P X 0 3	P X 0 4				
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A

† IMPORTANT: In the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures*, the vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the normal issue document, the ALM-2's vertical position in the Table should be *after* the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).

Table 2-3 Cardcage Slot Assignments and Backplane Configuration for the Sun-3/150

BACKPLANE JUMPERS		BOARD NUMBER	Sun-3/150 BACKPLANE SLOT POSITION †					
BG3	IACK		1	2	3	4	5	6
P X 0 3	P X 0 4							
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D	E
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C	D
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B	C
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A	B

† IMPORTANT: This table should be used in conjunction with the *Cardcage Slot Assignments and Backplane Configuration Procedures for the Six-Slot Enclosure (Sun P/N 813-2038-XX)*. The vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the Six-Slot slot assignments document, the ALM-2's vertical position in the Table should be *after* the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).



Table 2-4 Cardcage Slot Assignments and Backplane Configuration for the Sun-3/160X

BACKPLANE JUMPERS		BOARD NUMBER	Sun-3/160 BACKPLANE SLOT POSITION †											
BG3	IACK		1	2	3	4	5	6	7	8	9	10	11	12
P X 0 3	P X 0 4													
OUT	OUT	1st 501-1158 Sun SCP Board Assembly *		A	B	C	D	E	F					
OUT	OUT	2nd 501-1158 Sun SCP Board Assembly *			A	B	C	D	E	F				
OUT	OUT	1st 501-1221 MCP Board Assembly *		A	B	C	D	E	F	G	H			
OUT	OUT	2nd 501-1221 MCP Board Assembly *			A	B	C	D	E	F	G	H	I	J
OUT	OUT	3rd 501-1221 MCP Board Assembly *				A	B	C	D	E	F	G	H	I
OUT	OUT	4th 501-1221 MCP Board Assembly *					A	B	C	D	E	F	G	H
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D	E	F	G	H			
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C	D	E	F	G	H	I	J
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B	C	D	E	F	G	H	I
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A	B	C	D	E	F	G	H

IMPORTANT footnotes and cautions for this Table on next page.



*Footnotes for the Sun-3/160X*

† **IMPORTANT:** This table is to be used as a **replacement** of the entries for the SCP in the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures* (Sun P/N 813-2004-XX) for this model. In the normal issue Slot Assignments document, the vertical position of a board in a Table signifies the slot priority relative to the CPU board (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).

\* Consult your Sun sales office concerning software considerations for and availability of this unbundled product.

‡ **FOR SLOTS 2 THROUGH 6:** If you wish to install a "VME-to-Multibus Adapter Board" based product (such as the SCP), you **MUST USE** adapter board subassembly Revision 501-1054-04, Rev A or later to avoid signal contention on the "P2 Memory" bus. (Continued on the following page.)

**FOR SLOTS 11 AND 12:** If any combination of GP & GB boards are installed in slots 10 and 11 and you would like to install a "VME to Multibus Adapter Board" based product, you **MUST USE** Adapter board subassembly revision 501-1054-04 REV A or later to avoid signal contention on the "GP/GB private" bus.

*End of footnotes for the Sun-3/160X*

Table 2-5 *Cardcage Slot Assignments and Backplane Configuration for the Sun-3/180S*

<b>BACKPLANE JUMPERS</b>		<b>BOARD NUMBER</b>	<b>Sun-3/180 BACKPLANE SLOT POSITION †</b>											
<b>BG3</b>	<b>IACK</b>													
<b>P X 0 3</b>	<b>P X 0 4</b>		1	2	3	4	5	6	7	8	9	10	11	12
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D	E	F	G	H			
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C	D	E	F	G	H	I	J
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B	C	D	E	F	G	H	I
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A	B	C	D	E	F	G	H

† **IMPORTANT:** In the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures*, the vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the normal issue document, the ALM-2's vertical position in the Table should be **after** the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).



Table 2-6 *Cardcage Slot Assignments and Backplane Configuration for the Sun-3/180S*  
(When Slots 7, 8 and 9 are Reserved for Non-Sun Boards)

BACKPLANE JUMPERS		BOARD NUMBER	Sun-3/180 BACKPLANE SLOT POSITION †											
BG3	IACK													
P X 0 3	P X 0 4		1	2	3	4	5	6	7	8	9	10	11	12
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D	E				F	G	H
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C	D				E	F	G
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B	C				D	E	F
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A	B				C	D	E

† IMPORTANT: In the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures*, the vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the normal issue document, the ALM-2's vertical position in the Table should be *after* the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).

Table 2-7 Cardcage Slot Assignments and Backplane Configuration for the Sun-3/260X

BACKPLANE JUMPERS		BOARD NUMBER	Sun-3/260 BACKPLANE SLOT POSITION †											
BG3	IACK													
P X 0 3	P X 0 4		1	2	3	4	5	6	7	8	9	10	11	12
OUT	OUT	1st 501-1158 Sun SCP Board Assembly *		A	B	C	D		E	F				
OUT	OUT	2nd 501-1158 Sun SCP Board Assembly *			A	B	C		D	E	F			
OUT	OUT	1st 501-1221 MCP Board Assembly *		A	B	C	D		E	F	G	H	I	J
OUT	OUT	2nd 501-1221 MCP Board Assembly *			A	B	C		D	E	F	G	H	I
OUT	OUT	3rd 501-1221 MCP Board Assembly *				A	B		C	D	E	F	G	H
OUT	OUT	4th 501-1221 MCP Board Assembly *					A		B	C	D	E	F	G
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D		E	F	G	H	I	J
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C		D	E	F	G	H	I
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B		C	D	E	F	G	H
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A		B	C	D	E	F	G

IMPORTANT footnotes and cautions for this Table on next page.



*Footnotes for the Sun-3/260*

† IMPORTANT: This table is to be used as a *replacement* of the entries for the SCP in the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures* (Sun P/N 813-2004-XX) for this model.

\* Consult your Sun sales office concerning software considerations for and availability of this unbundled product.

‡ FOR SLOTS 2 THROUGH 5: If you wish to install a "VME-to-Multibus Adapter Board" based product (such as the SCP), you MUST USE adapter board subassembly Revision 501-1054-04, Rev A or later to avoid signal contention on the "P2 Memory" bus.

FOR SLOTS 11 AND 12: If any combination of GP and GB boards are installed in slots 10 and 11 and you wish to install a "VME to Multibus Adapter Board" based product, you MUST USE Adapter board subassembly revision 501-1054-04 REV A or later to avoid signal contention on the "GP/GB" bus.

*End of footnotes for the Sun-3/260*

Table 2-8 *Cardcage Slot Assignments and Backplane Configuration for the Sun-3/280S*

<b>BACKPLANE JUMPERS</b>		<b>BOARD NUMBER</b>	<b>Sun-3/280 BACKPLANE SLOT POSITION †</b>											
<b>BG3</b>	<b>IACK</b>													
<b>P X 0 3</b>	<b>P X 0 4</b>		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D		E	F	G	H	I	J
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C		D	E	F	G	H	I
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B		C	D	E	F	G	H
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A		B	C	D	E	F	G

† IMPORTANT: In the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures*, the vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the normal issue document, the ALM-2's vertical position in the Table should be *after* the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).

Table 2-9 *Cardcage Slot Assignments and Backplane Configuration for the Sun-3/280S  
(When Slots 7, 8 and 9 are Reserved for Non-Sun Boards)*

BACKPLANE JUMPERS		BOARD NUMBER	Sun-3/280 BACKPLANE SLOT POSITION †											
BG3	IACK													
P X 0 3	P X 0 4		1	2	3	4	5	6	7	8	9	10	11	12
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D					E	F	G
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C					D	E	F
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B					C	D	E
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A					B	C	D

† IMPORTANT: In the normal issue *Cardcage Slot Assignments and Backplane Configuration Procedures*, the vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the normal issue document, the ALM-2's vertical position in the Table should be *after* the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).



Table 2-10 Cardcage Slot Assignments and Backplane Configuration for the Sun-4/260

BACKPLANE JUMPERS		BOARD NUMBER	Sun-4/260 BACKPLANE SLOT POSITION †											
BG3	IACK													
P X 0 3	P X 0 4		1	2	3	4	5	6	7	8	9	10	11	12
OUT	OUT	1st 501-1158 Sun SCP Board Assembly *		A	B	C	D		E	F				
OUT	OUT	2nd 501-1158 Sun SCP Board Assembly *			A	B	C		D	E	F			
OUT	OUT	1st 501-1221 MCP Board Assembly *		A	B	C	D		E	F	G	H	I	J
OUT	OUT	2nd 501-1221 MCP Board Assembly *			A	B	C		D	E	F	G	H	I
OUT	OUT	3rd 501-1221 MCP Board Assembly *				A	B		C	D	E	F	G	H
OUT	OUT	4th 501-1221 MCP Board Assembly *					A		B	C	D	E	F	G
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D		E	F	G	H	I	J
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C		D	E	F	G	H	I
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B		C	D	E	F	G	H
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A		B	C	D	E	F	G

IMPORTANT footnotes and cautions for this Table on next page.



*Footnotes for the Sun-4/260*

† **IMPORTANT:** This table should be used in conjunction with the *Sun-4/200 Cardcage Slot Assignments and Backplane Configuration Procedures (Sun P/N 813-2037-XX)*. The vertical position of a board in a Table signifies the slot priority relative to the CPU board (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).

\* Consult your Sun sales office concerning software considerations for and availability of this unbundled product.

‡ **FOR SLOTS 2 THROUGH 5:** If you wish to install a "VME-to-Multibus Adapter Board" based product (such as the SCP), you **MUST USE** adapter board subassembly Revision 501-1054-04, Rev A or later to avoid signal contention on the "P2 Memory" bus.

**FOR SLOTS 11 AND 12:** If any combination of GP and GB boards are installed in slots 10 and 11 and you wish to install a "VME to Multibus Adapter Board" based product, you **MUST USE** Adapter board subassembly revision 501-1054-04 REV A or later to avoid signal contention on the "GP/GB" bus.

*End of footnotes for the Sun-4/260*

Table 2-11 *Cardcage Slot Assignments and Backplane Configuration for the Sun-4/280*

<b>BACKPLANE JUMPERS</b>		<b>BOARD NUMBER</b>	<b>Sun-4/280 BACKPLANE SLOT POSITION †</b>											
<b>BG3</b>	<b>IACK</b>													
<b>P X 0 3</b>	<b>P X 0 4</b>		1	2	3	4	5	6	7	8	9	10	11	12
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D		E					
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C		D	E				
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B		C	D	E			
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A		B	C	D	E		

† **IMPORTANT:** This table should be used in conjunction with the *Sun-4/200 Cardcage Slot Assignments and Backplane Configuration Procedures (Sun P/N 813-2037-XX)*. The vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the Sun-4/200 slot assignments document, the ALM-2's vertical position in the Table should be **after** the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).



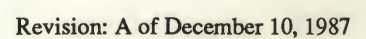
Table 2-12 *Cardcage Slot Assignments and Backplane Configuration for the Sun-4/280  
(When Slots 7, 8 and 9 are Reserved for Non-Sun Boards)*

BACKPLANE JUMPERS		BOARD NUMBER	Sun-4/280 BACKPLANE SLOT POSITION †											
BG3	IACK													
P X 0 3	P X 0 4		1	2	3	4	5	6	7	8	9	10	11	12
OUT	OUT	1st 501-1203 ALM-2 Board Assembly		A	B	C	D					E	F	G
OUT	OUT	2nd 501-1203 ALM-2 Board Assembly			A	B	C					D	E	F
OUT	OUT	3rd 501-1203 ALM-2 Board Assembly				A	B					C	D	E
OUT	OUT	4th 501-1203 ALM-2 Board Assembly					A					B	C	D

† IMPORTANT: This table should be used in conjunction with the *Sun-4/200 Cardcage Slot Assignments and Backplane Configuration Procedures (Sun P/N 813-2037-XX)*. The vertical position of a board in a Table signifies the slot priority relative to the CPU board. When referring to the Tables in the Sun-4/200 slot assignments document, the ALM-2's vertical position in the Table should be *after* the 2nd 501-1158 Sun SCP. If an MCP is already installed after the 2nd 501-1158 Sun SCP, the ALM-2 should go after the last MCP (see Section 1.2 for a detailed discussion of possible conflicts in board slot assignments).





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